# 510(k) Summary

K001991

Name of Sponsor:

DePuy Orthopaedics, Inc.

700 Orthopaedic Drive

Warsaw, Indiana 46581-0988

Est. Reg. No. 1818910

510(k) Contact:

Marcia J. Arentz

Senior Regulatory Associate Phone: (219) 371-4944 FAX: (219) 371-4940

Trade Name:

Titan<sup>TM</sup> Porocoat<sup>®</sup> Hip Prosthesis

**Common Name:** 

Total Hip Joint Replacement Prosthesis with

porous coating

Classification:

Class II Device per 21 CFR 888.3358:

Hip joint metal/polymer/metal semi-constrained

porous coated uncemented prosthesis

**Device Product Code:** 

Code: 87LPH Prosthesis Hip Semi-constrained,

Metal/Polymer, Porous Uncemented

No performance standards have been established under Section 514 of the Federal Food, Drug,

and Cosmetic Act for femoral hip stems.

**Substantially Equivalent Device:** 

UNI-ROM Femoral Hip Stem

K974331 K934457

Stability Hip Femoral Component with Porocoat

Vision AML Hip Prosthesis

K953694

**Device Descriptions:** 

The Titan Porous Hip is a collarless, titanium, tapered, press-fit femoral stem. The hip stem is manufactured from Titanium (Ti-6Al-4V) and has a sintered commercially pure titanium bead porous coating (Porocoat®) applied to the stem. The hip stem consists of 11 body sizes ranging in diameter from 6mm to 18mm with each body

size having two offset options.

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## 510(k) Summary (continued)

Intended use:

Total hip arthroplasty is intended to provide increased patient mobility and reduce pain by replacing the damaged hip joint articulation in patients where there is evidence of sufficient sound bone to seat and support the components.

Indications for use:

Total hip replacement is indicated in the following conditions:

- 1. Severely painful and/or disabled joint from osteoarthritis, traumatic arthritis, rheumatoid arthritis, or congenital hip dysplasia.
- 2. Avascular necrosis of the femoral head.
- 3. Acute traumatic facture of the femoral head or neck.
- 4. Failed previous hip surgery including joint reconstruction, internal fixation, arthrodesis, hemiarthroplasty, surface replacement arthro-plasty, or total hip replacement.
- 5. Certain cases of ankylosis.

Substantial equivalence:

The Titan Porocoat Hip Prosthesis has the same intended use and basic design as the predicate devices and is therefore substantially equivalent.



### AUG 2 5 2000

Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Ms. Marcia J. Arentz Senior Regulatory Associate DePuy Orthopaedics, Inc. P.O. Box 988 700 Orthopaedic Drive Warsaw, Indiana 46581-0988

Re: K.001991

Trade Name: Titan<sup>TM</sup> Porocoat® Hip Prosthesis

Regulatory Class: II Product Code: LPH Dated: June 26, 2000 Received: June 29, 2000

#### Dear Ms Arentz:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general control provisions of the Act. The general control provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the current Good Manufacturing Practice requirement, as set forth in the Quality System Regulation (QS) for Medical Devices: General regulation (21 CFR Part 820) and that, through periodic (QS) inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4659. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address "http://www.fda.gov/cdrh/dsmamain.html".

Sincerely yours,

Celia M. Witten, Ph.D., M.D.

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Director

Division of General, Restorative and

Neurological Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

510(k) Number (if known): <u>k∞1991</u>

Device Name: Titan<sup>TM</sup> Porocoat<sup>®</sup> Hip Prosthesis

### **Indications for Use:**

Total hip arthroplasty is intended to provide increased patient mobility and reduce pain by replacing the damaged hip joint articulation in patients where there is evidence of sufficient sound bone to seat and support the components. Total hip replacement is indicated in the following conditions:

- 1. A severely painful and/or disabled joint from osteoarthritis, traumatic arthritis, rheumatoid arthritis, or congenital hip dysplasia.
- 2. Avascular necrosis of the femoral head.
- 3. Acute traumatic fracture of the femoral head or neck.
- 4. Failed previous hip surgery including joint reconstruction, internal fixation, arthrodesis, hemiarthroplasty, surface replacement arthroplasty, or total hip replacement.
- 5. Certain cases of ankylosis.

The Titan Porocoat® Hip Stem is indicated for cementless use and fixation by biological tissue ingrowth into the porous coating.

Concurrence of CDRH, Office of Device Evaluation

Division of General Restorative Devices

510(k) Number K00/99/

Prescription Use (Per 21 CFR 801.109)

OR

Over-The-Counter Use